RobLight

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99082154, 01-07-2020, Rev. 1.1

RobLight

FL 1000 XT C DMX

User manual

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Introduction

RobLight FL 1000 XT C DMX light generator with DMX controlled colour and twinkle wheel as well as very smooth controlled dimming are designed for use outdoors with glass or PMMA fibre in all installation set-ups, including in closed compartments. Weatherproof, waterproof LED light generator. Cuts energy consumption by min. 63% compared with equivalent halogen generators. For functional and decorative tasks outdoors and in wet locations. Ideal for fountains, public art, facades, signage, parks, gardens and swimming pools

Product overview/unboxing

FL 1000 XT C DMX light generator
Allen key
Screws w/ plugs
User manual

Applies to :

0123 6310	FL 1000 XT C DMX Colour 3000K
0123 6315	FL 1000 XT C DMX Twinkle 3000K
0123 6320	FL 1000 XT C DMX Colour 4000K
0123 6325	FL 1000 XT C DMX Twinkle 4000K
0123 6410	FL 1000 XT C DMX Dual 3000K
0123 6420	FL 1000 XT C DMX Dual 4000K

Installation instructions

Follow the installation instructions to ensure

- Safe operation
- Full functionality
- Stated expected lifetime
- Uninterrupted illumination

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Troubleshooting

Problem	Trace the problem	Solution
No light	Is the power on?	Turn the power on
	Is the power cord connected properly?	Connect the power cord properly
	Is the light generator too hot*?	Check it is installed according to the instructions. Switch generator off. Let it cool for 15 minutes. Try again.
	Is the LED working?	Replace the LED
	Is the Supply fuse intact?	Replace the Supply fuse
	Check DMX	Set correct address, value and level
Light output has diminished	Has the light been dimmed via DMX	Increase brightness using DMX Controller
	Is the harness common end dirty?	Clean filter with damp cloth Dry with lint-free cloth

If problems are not solved using this guide, please contact RobLight A/S.

Application notes

The light generator is an electronic device and must be handled accordingly. The different components will have different factors influencing the practical lifetime. The most important factor for this system is the condition of the surrounding air (temperature and cleanliness). The data we have stated about or and the expected lifetime of the key components, are at the temperatures that the suppliers have performed during their standardized tests in clean environments.

The light generator is designed to run at max ambient temperature, but the longest usable operation is achieved with lower temperatures.

Although there is thermal protection built into this device, it is only a safety device and should not be used as a measurement device to test if the light generator is running at a tolerable surrounding temperature.

The polyconnector is the most stressed part of this system.
Care should be taken to ensure that the fibre ends are 100% clean and free from dust and grease (fingerprint will do damage.). See www.rob-light.com for recommendations to clean fibre ends.

Running the light generator at too high temperatures will not only risk damage to the light source but also to the fibre harness.

KEEP COOL **CLEAN AIR**

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Warning

This device has a built in high power phosphor converted blue led. The light source is grouped in Risk Group 2.

Risk group 2

CAUTION.
Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

Do not look into the light port when lit.

Beware of placing highly light absorbing material directly in front (Distance 0-1cm) of the port or a fibre. The extremely high intensity will increase the temperature in the material.

Using non RobLight harnesses in this light generator is at its own risk.

Ensure that the polyconnector is undamaged and clean before using the light generator in retrofit RobLight installations.

Beware that when the or a light generator is operated at max ambient temperature the surface temperature can exceed 75°C.

The light generator is only tested with RobLight standard polyconnector end.

Warranty label

The warranty label is not to be broken under ANY circumstances. If broken the warranty is terminated.

Technical data

General

Light port	Ø28 mm
Fibre type	PMMA or glass
Material	EN AW-5754 (AlMg 3) + POM
Dimensions (L x H x W)	298 x 185 x 151
Weight (total)	3.8 kg
Safety	CE, RoHS, F

Environmental

Protection rating	IP 68
Thermal protection	Integrated auto
Cooling	Natural convection
Ambient temperature	-20° to 45°

Driver/electrical

Driver	Electronic
Supply voltage (mains)	120-240 V/50-60 Hz
Driver expected lifetime	50.000 h
Total power consumption	26W (single well) 31W(dual weel)
Dimmer systems applicable	DMX

Light source

Applied LED	LUXEON S1000 LXS8-PW30/PW40 (3000K/4000K)
LED expected lifetime	50.000 h
Typical CCT	3.000K / 4000K
Typical Ra (CRI_{1-8})	85

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Maintenance, spare parts and repairs

The effectiveness of the active cooling device is greatly diminished if the cooling fins and the air intake is blocked or polluted with dust. This will reduce the expected lifetime of the product.
The dust must be removed on a regular basis. Interval depending on the environment.
A fine brush, vacuum cleaning or light compressed air can be used for the cleaning.

This light source is not supposed to be otherwise serviced, if used as recommended.

The fan can be replaced using standard tools. A replacement kit with guide is available.

If the product is not performing as specified, use the troubleshooting guide. If you need further assistance, please contact RobLight.

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Accessories / Spare part

	Part name	Description	Item no.
	Eldoled	Driver 50W	1104 1300
	Colour wheel	Standard 6 colour	5100 0085
	Twinkle wheel		5100 0092
	Diode LED		0129 4004
	Motor for DMX	Stepper motor 1.8°	6400 4000
	Spring-clip 4 mm	Lock for wheel	9100 6304
	Mounting bracket		0126 7000
	EldoLED TOOLbox pro		0160 0336
	Programming cable for TOOLbox		0160 0337
	DMX addressing	Factory settings	9903 0070
	Sunlight USB con-troller		0160 0302
	DMX Manual		9908 2178

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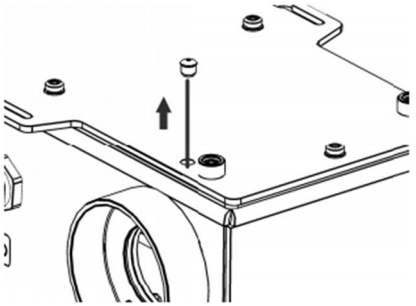
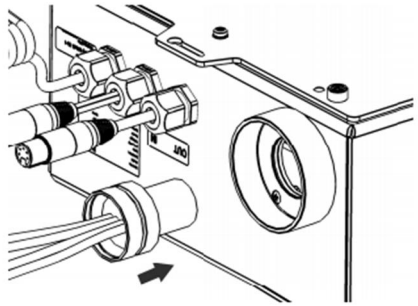
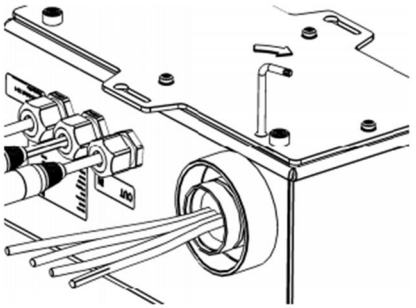
Installation instructions

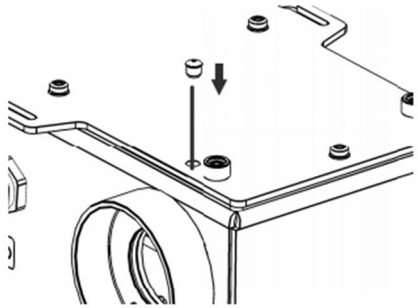
a) Remove cap from the light port
b) Insert the common end, fully in the light port
c) Tighten the screw on the light port
d) Ensure all installation and ventilation requirements are met
e) Connect the supply cord to the mains.
f) For DMX addressing se manual nr 9908 2178

WARNING!
Remove red cap
before turning on.



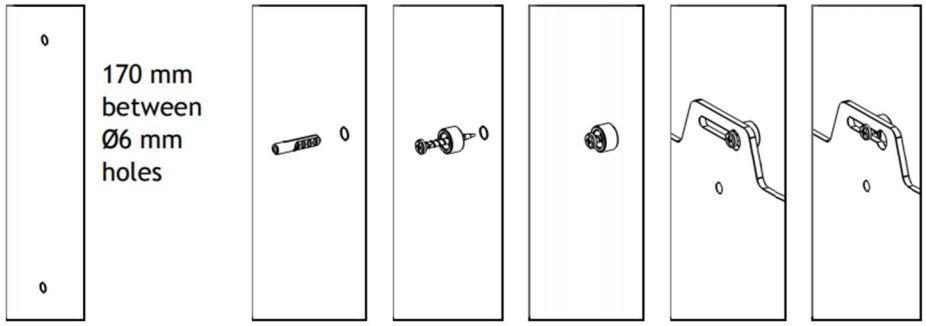






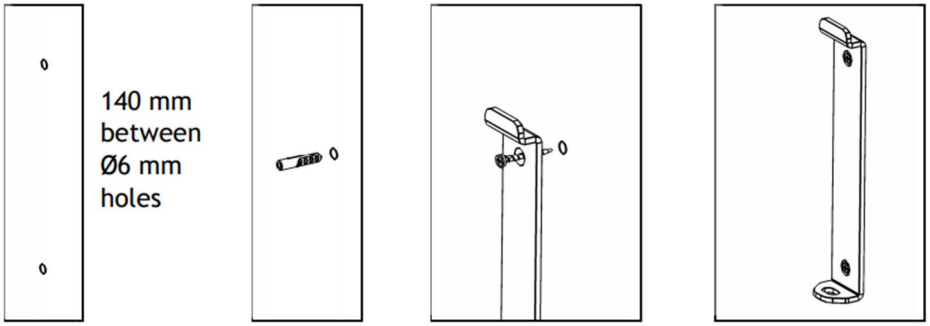
Surface mounting

5a Surface-mounting.
1. Attach to surface using two screws in the baseplate holes.
2. Vertical installation: to maintain IP 65 protection, mount with the light port facing down.



Vertical mounting

5b Bracket-mounting.
1. Attach the bracket (not supplied; see Accessories) to the surface using two screws.
2. Mount the light generator on the bracket.



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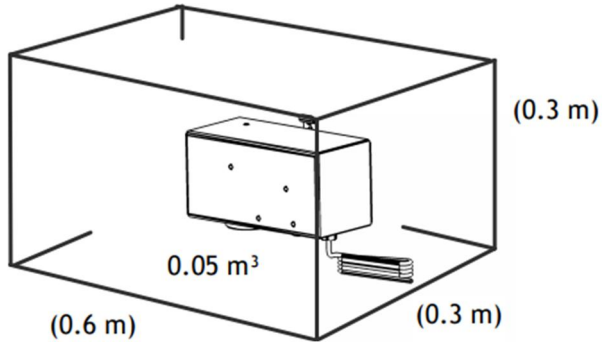
Closed compartments

Requirements:
Enough space to allow natural heat transmission through surfaces Surfaces should not be insulated Air volume per light generator minimum 0.05 m^3 Ventilation holes per light generator with
min. 20 cm^2 air inlet and
min. 20 cm^2 air outlet Inlet and outlet ventilation holes opposite each other Max. ambient temperature 45°C. (Measuring temperature: see 'Troubleshooting')



Installing adjacent light generators

Requirement:
min. 100 mm distance between adjacent light generators in order to ensure sufficient heat transmission